

Ejercicio 1

Realice los cálculos de media, mediana, moda varianza, desviación estándar, para datos no agrupados.

40	56	45	56	50	50
55	60	55	67	49	59
60	63	54	50	55	58
63	50	50	46	48	60
47	50	65	49	40	64
40	49	62	58	44	72
55	50	78	65	50	70
50	54	84	62	45	68

Ejercicio 2

27	40	44	35	34	57	35	38
35	87	35	44	44	55	87	45
40	35	60	78	35	78	35	56
78	44	66	76	55	54	88	67
35	35	76	89	80	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	80	35

Favor de comunicarse conmigo para poder enviarles otros videos para datos no agrupados

Ejercicio 1

1.	40	49	50	58	65	$\sum y_i = 2670$
2.	40	49	54	59	65	
3.	40	50	54	60	67	$\sum y_i^2 = 152840$
4.	44	50	55	60	68	
5.	45	50	55	60	70	
6.	45	50	55	62	72	
7.	46	50	55	62	78	
8.	47	50	56	63	74	
9.	48	50	56	63		
10.	49	50	58	64		

Media

$$\bar{x} = \frac{\sum y_i}{n}$$

$$\bar{x} = \frac{2670}{48}$$

$$\bar{x} = 55.62 /$$

Mediana

$$Me = \frac{n}{2}, \frac{n}{2} + 1$$

$$Me = \frac{48}{2}, \frac{48}{2} + 1$$

$$Me = 24, 24 + 1$$

$$Me = 24, 25$$

$$Me = 55, 55$$

$$Me = \frac{55 + 55}{2}$$

$$Me = \frac{110}{2}$$

$$Me = 55 /$$

Moda

$$Mo = 50$$

Desviación estándar

$$S = \sqrt{91.94}$$

$$S = 9.58$$

Varianza

$$S^2 = \frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n-1}$$

$$n-1$$

$$S^2 = \frac{152840 - 148518.75}{47}$$

$$S^2 = \frac{152840 - \frac{(2670)^2}{48}}{47}$$

$$47$$

$$S^2 = 91.94 /$$

Ejercicio 2

1.	27	35	44	56	77	87	
2.	34	35	44	57	78	87	
3.	35	35	44	60	78	88	
4.	35	35	44	66	78	89	
5.	35	35	44	66	78	90	
6.	35	38	45	67	80	94	
7.	35	46	54	70	80		
8.	35	40	55	76	87		$\sum y_i = 3211$
9.	35	40	55	76	85		$\sum y_i^2 = 207513$
10.	35	44	56	77	86		

Media.

$$\bar{x} = \frac{\sum x y_i}{n}$$

$$\bar{x} = \frac{3211}{56}$$

$$\bar{x} = 57.33 /$$

Mediana

$$Me = \frac{n}{2}, \frac{n}{2} + 1$$

$$Me = \frac{56}{2}, \frac{56}{2} + 1$$

$$Me = 28, 29$$

$$Me = 55, 55$$

$$Me = \frac{55 + 55}{2}$$

$$Me = 55 /$$

Moda.

$$M_0 = 35 /$$

Desviación estándar.

$$S = \sqrt{425.39}$$

$$S = 20.62 /$$

Varianza.

$$S^2 = \frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n-1}$$

$$n-1$$

$$S^2 = \frac{207513 - \frac{3211^2}{56}}{55}$$

$$S^2 = \frac{207513 - \frac{3211^2}{56}}{55}$$

$$55$$

$$S^2 = 425.39 /$$